



Montana Department of Health and Environmental Sciences
MONTHLY ACTIVITIES REPORT OF THE AIR QUALITY BUREAU

August 1976

STATE DOCUMENTS
11-277

1. Highlights

Establish a meteorological network in Kalispell area.

EPA and Rockwell quality assurance review.

Dispersion modeling for Northern Cheyenne redesignation under Prevention of Significant Deterioration.

Submitted a proposal for Phase II health study.

Glendive Hospital ordered to replace incinerator by Board of Health after hearing.

2. Ambient Air Quality Network

Standards Exceeded:

SO₂ - C-Hill, Anaconda, 8 violations MT 1-hr. std.
Hiway Jct., Anaconda, 4 viol. MT 1-hr. std.
Mill Creek RR Cross., Anaconda, 1 viol. MT 1-hr. Std.
Post Office, Anaconda, 7 viol. MT 1-hr. std.
Laurel E. Cenex, Billings, 31 viol. MT 1-hr. std.
Kleffner Ranch, E. Helena, 1 viol. fed. 3-hr. std.
Kleffner Road, E. Helena, 1 viol. fed. 3-hr. std.

Air Stagnation Advisories:

No Air Stagnation Advisories were issued during the month of August. Air quality remained generally good.

Laboratory Status:

Total determinations for the month	293
Total samples for the month	293

Developments:

Routine calibration, repair and maintenance of equipment in the state.

Hi-vol problems in Kalispell area corrected.

Performance tests made on hydrocarbon gas cylinders in Colstrip.

3. Permits and Tax Credits

Applications:

Joe Mayo & Son, Inc., asphalt plant, Prairie County
Joe Mayo & Son, Inc., gravel crushing plant, Prairie Co.
Carl Hanrath - Francis Mahon Deaconess Hospital, incinerator, Glasgow, Valley County

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Martel Properties, incinerator, Bozeman, Gallatin County
Joe Mayo & Son, gravel crushing plant, Prairie County
Buttrey Foods, incinerator, Bozeman, Gallatin County
Gus M. Albert, gravel crushing plant, Glacier County
Gus M. Albert, asphalt plant, Glacier County
Anton Patrick, paint booth with washer sprays, Butte, Silver Bow County
City of Lewistown, asphalt plant, Fergus County
Joe Mayo and Son, Inc., gravel crushing plant, Prairie County.
Joe Mayo and Son, Inc., asphalt plant, Prairie County
Joe Mayo & Son, Inc., gravel crushing plant, Prairie County
Portable Pavers, Inc., asphalt plant, Prairie County

Approved:

Hilde Const. Co., Inc., gravel crushing plant, Fergus & Judith Basin Co.
Gus M. Albert, asphalt plant, Blaine County
Gus M. Albert, gravel crushing plant, Blaine County
Hilde Const. Co., Inc., gravel crushing plant, Pondera County
Joe Mayo & Son, Inc., asphalt plant, Prairie County
Joe Mayo & Son, Inc., gravel crushing plant, Prairie County.
Martel Properties, incinerator, Bozeman, Gallatin Co.
Joe Mayo & Son, Inc., gravel crushing plant, Prairie County.
Gus M. Albert, gravel crushing plant, Glacier County
Gus M. Albert, asphalt plant, Glacier County
City of Lewistown, asphalt plant, Fergus County
Joe Mayo & Son, Inc., gravel crushing plant, Prairie County
Joe Mayo & Son, Inc., asphalt plant, Prairie County
Joe Mayo & Son, Inc., gravel crushing plant, Prairie

Tax Credits:

Work begun on Montana Dakota Utilities tax certification application on new scrubber.

4. Variance Status

Current Variances:

Anaconda County smelter, continuance granted, expires 9/24/76

New or Renewed Variances:

Anaconda Aluminum Co., Columbia Falls, F⁻ and particulate, renewal, expires 7/1/77
ASARCO, Inc., E. Helena, lead and zinc plant, renewal, expires 6/30/77

5. Enforcement Actions

Citations:

City of Havre, burning of old city dump, 8/3/76
Buttrey Foods, Havre, incinerator malfunction
Anaconda Co., Anaconda SO₂ violation

Notices of Violation:

Terra Asphalt of Montana, Billings, 16-2.14(1)-S1440
Public Utilities Dept. Billings, dust emissions
K-Mart Foods, Inc., Billings, incinerators, 16-2.14(1)-S1420

6. Tepee Burners and Open Burning

Tepee Burner Status:

No. at Start	41
New Starts	0
Shutdowns	0
No. at End	41

Open Burning Permits:

Kalispell Office	25	Sanders County	60
Cascade County	5	Yellowstone Co.	22
Lake County	4	Rest of State	276
Missoula County	1	Total Permits	393

7. Source Tests Performed

Agency Source Tests

None

Non-Agency Source Tests:

Colstrip Unit No. 1, by John Yapuncich for Montana Power Co.

8. Field Investigations

Brand S Lumber, Boulder, plant inspection
Liberty County, Chester, dump, inspection
Diamond Asphalt, Chinook, inspection
Pfizer Talc, Dillon, inspection
Anaconda Co., Anaconda, smelter, obtaining data
Kanta Products, Three Forks, plant inspection
Cyprus Industrial, Three Forks, plant inspection
Townsend tepee burner, inspection
Silver City, tepee burner, inspection
Pack & Co., Kalispell, dust control
Continental Oil Co., Billings, opacity observation
Gauger Sand & Gravel, Billings, dust emissions

9. Complaints

City of Havre, dust in alley, corrected
Helena, street dust
C & C Lumber, tepee burner, smoke
Aronson Egg Farm, Rollins, odor, corrected
Max Fisk, Harlowton, open burning
John Breeding, Ekalaka, open burning, letter written

10. Data Processing Services

Program written for new hi-vol orifice curves

Ambient Data Summary:

Monthly summary of July air quality data attached.

Emissions Inventory Status:

No sources updated. Computer system complete. Semi-annual report sent to EPA.

Prevention of Significant Deterioration:

Modeling assistance started for environmental analysis conducted by Northern Cheyenne in their Class I redesignation proposal.

Modeling:

Modeling performed on Colstrip Units 3 and 4.

Meeting held in Great Falls discussing upcoming modeling for transportation plan.

11. Environmental Impact Statements

Agency Impact Determinations:

None

Other Agency EIS's Reviewed:

None

12. Status of Studies, Contracts and Reports

Health Study Phase I, will begin on this phase in September
Phase II - not yet approved. Cost proposal submitted
Area Source Emission Inventory, will be started in September
Air Quality Lab Manual, completed
U.S. Plywood, particulate source test report 90% complete
Floyd Bossard's contract extended until September 24.
Quarterly air quality data and semi-annual emission inventory report sent to EPA
Meteorological study, Col. Falls, proposed to start October 1.
Quality assurance manuals, first copy complete
Quality assurance policies, started
Particulate Matter Projections by PEDCo, for Billings, complete

13. Schools and Training

None

14. Public Hearings and Meetings

Public Hearings:

Board of Health and Environmental Sciences, August 6, 1976
Anaconda Aluminum variance renewal for plant at Col. Falls
NSPS/NESHAPS Rules adopted
Glendive Community Hospital, incinerator, ordered to submit corrective plan by October 1
Anaconda Mining - variance renewal for smelter at Anaconda continued
ASARCO, Inc., variance request, granted
Report by AQB on particulate emissions from Anaconda Co. copper smelter, Anaconda

Meetings Attended:

Collective bargaining, Helena
State Air Shed Meeting, Missoula
"Missoulian" reporter, Missoula
Conference, trace metal analysis in coal, Butte
Environmental education workshop
Hoerner-Waldorf permit, Helena
Col. Falls, vegetation study, Helena
Anaconda Aluminum Company variance renewal, Helena
Hoerner Waldorf ambient monitoring program
EPA, NSPS/NESHAPS, Helena
Ecological Cons. Services, North Central Montana
Dept. Highways, Environmental Impact Group, Helena
Environmental Sciences Division, Enforcement, Helena
Anaconda Co. SO₂ emissions, Helena
City-County Planning, transportation plant, Great Falls
Emission testing and regulations, Helena
Northern Cheyenne, Prevention of Significant Deterioration, Helena
EPA and Cenex, Billings
City-County Planning, Billings
Transportation Planning, Billings

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Intra-Staff Meetings:

Staff meeting, Helena
Staff reports for board meeting, Helena
Legal Division, board agenda, Helena
SO₂ standards, Helena

15. Public Information Requests

Rules - 10
Clean Air Act - 4
General - 9

16. Fiscal Status

Grants Received:

None

Monthly Expenditures:

Program	Budget	August	Year to Date	Funds Remaining
0630	443,090	27,761	41,196	408,343
0631	74,400	--	--	74,400
0633	82,635	4,481	6,351	76,284

PORTLAND DEPARTMENT OF HEALTH AND ENVIRONMENTAL SERVICES

Monthly Summary of Air Quality Data

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Indicator: Miscellaneous Continuous Data Units: Parts Per Million

Indicator: Sulfur Dioxide

Units: Parts Per Million

Stn	Site Location	Monthly Average			Ambient Air Quality		Comments
		Current Month	Year-to-Date	January Year	Exceeds State Std	Exceeds Fed Std	
140	Carbon Burner, 11th & S. 27th Billings						Analyzer broken down
	27th & Montana Billings						Analyzer broken down
140	Hydrocarbons 27th & Montana Billings	3.90	7.80	30.00	2.830	7	
	Laurel E. Conex Billings	6.60	6.60	6.60		3	
143	BN Colstrip	3.50	3.50	3.50	1.615	6	
	Meth. Hydrocarbon BN	1.60	2.00	3.80	1.610	6	
143	BN Colstrip	2.00	2.00	2.00	.007	6	
143	Nonmeth. Hydrocarbons BN Colstrip						
140	Nitrogen Dioxide 27th & Montana Billings	0.11	0.11	0.11	0.033	7	
140	Ozone 27th & Montana Billings	0.10	0.10	0.10	0.023	7	9 viol. fed. prim. std. equipment broken down
143	BN Colstrip						

Stn	Site Location	Monthly Average			Ambient Air Quality		Comments
		Current Month	Year-to-Date	January Year	Exceeds State Std	Exceeds Fed Std	
147	East Stack East Helena	0.44	0.44	0.44	0.012	7	1 viol. MT 1-hr. std.
	Microwave East Helena	0.78	1.08	1.08	0.014	7	10 viol. MT 1-hr. std.
	Saddle Mountain East Helena	0.15	0.58		0.006	7	
	C-Hill	1.85	2.54	2.54	0.018	7	19 viol. MT 1-hr. std.
	Anaconda						
	Hissy Junction Anaconda	0.47	0.78	0.78	0.018	7	7 viol. MT 1-hr. std.
	Mill Cr RR Cross	0.25	0.79	0.79	0.015	7	1 viol. MT 1-hr. std.
	Post Office Anaconda	0.72	0.72	0.72	0.008	7	14 viol. MT 1-hr. std.
	Pump House Anaconda	0.11	0.40	0.40	0.006	7	
140	27th & Montana Billings	0.05	0.15	0.15	0.006	7	
	Laurel E. Conex Billings	0.61	0.61	0.61		4	15 viol. MT 1-hr. std.
	Laurel Water Pit	0.50	0.50	0.50	0.015	2	3 viol. MT 1-hr. std.
143	BN Colstrip	0.00	0.02	0.02	0.000	7	

Indicator: Miscellaneous Indicators

Units:

Indicator: Miscellaneous Indicators

Units:

Stn	Site Location	Monthly Average			Ambient Air Quality		Comments
		Current Month	Year-to-Date	January Year	Exceeds State Std	Exceeds Fed Std	
141	DUSTFALL - Tonawanda Station	13.77	28.16	16.60	7		
	Cascade Co. Fire Station #1	14.89	37.73	37.73	19.49	7	
142	FLUORIDE PAPERS - Ramsey West	1.660	1.750	1.750	1.17	6	
	S. Bow County USE of Stauffer	5.420	7.870	4.520	4.508	6	
144	S. Bow County DuPont's MT Box	0.830	1.410	1.410	0.813	7	
	Teakettle #10	3.770	19.700	19.700	4.439	7	
	Flathead Co. Glacier Park #1	0.290	0.580	0.580	0.318	6	
	Glacier Nat. Park	0.290	0.580	0.580	0.347	6	
	Glacier Park #2						
	Glacier Nat. Park						
	FLUORIDE PLATES - Ramsey West						No longer running No longer running
	S. Bow County USE of Stauffer						
143	M. Rae	0.0	0.0	0.0	0.0	7	
	Beavertown County Teakettle #1	15,500	30,000	30,000	10,000	7	
	Flathead Co.						

Stn	Site Location	Monthly Average			Ambient Air Quality		Comments
		Current Month	Year-to-Date	January Year	Exceeds State Std	Exceeds Fed Std	
144	Teakettle #6	7.760	18.670	18.670	13.215	7	
	Flathead Co. Anaconda South	4.330	8.600	8.600	4.987	6	
	Flathead Co. Glacier Park #1	0.440	0.720	0.720	0.429	7	
	Glacier Nat. Park	0.0	0.810	0.810	0.426	7	
	Glacier Park #2						
	Glacier Nat. Park						
140	SULFATION RATE - 1/2 mi. N. Con	0.750	4.570	4.570	1.965	6	
	Yellowstone Co. E of Laurel	0.560	3.670	3.670	1.281	7	
	Yellowstone Co. Hi-Ball Trucking	0.410	1.510	1.410	0.748	6	
	Yellowstone Co. Stock Car Track	0.079	0.725	.743	.068	6	
141	Cascade Co. Phillips Ref. #1	0.053	.333	.353	.118	6	
	Cascade Co. Phillips Ref. E	0.078	.399	.399	.118	6	
142	Microwave Tower	0.320	0.400	0.680	0.70	7	
	Jefferson Co. 1/2 mi Junction	0.670	1.100	0.490	0.511	6	
143	BN Colstrip	0.0	0.0	0.04	0.0	6	Not running at this time

